SILVA
Get out there™

Read this or get lost...

Known and unknown friends have trusted us to be a part of big and small adventures. We are suppliers to races and adventures across the Oceans, expeditions to the top of Mount Everest, through the deepest jungles of the Amazon, across deserts and of course to the North and South poles.

Don´t get lost again! – Choose Silva as your partner!

Headlamps

The new M-series compact headlamps offer a combination of a fantastic light and a very long discharge time for close range work by using LED technology. Compact size, low weight and rugged construction with a reflector technology that gives a fantastic light, makes the M-series the ultimate choice for any headlamp user.

A headlamp is an incredible partner when doing different kinds of work in the dark. No matter where you are looking, you instantly have the light in the right direction. The M1 and M2 are a combination of a high power Halogen bulb for long range use and high power LEDs for close range use. The M1 and M2 are specially suited for advanced outdoor users, search and rescue teams, Multi-Sport teams, different professional users and all other users that require a very long discharge time for the short range use but also need to use a strong light on a longer range.

M1
- 4 W Halogen + 3 LEDs
- 75 m
- Rechargeable NiMH 1600mAh + charger (included)
- 4 W Halogen – approx. 1 h 45 min
- 3 LEDs – approx. 100 h

Art.no. 57003

M2
- 2.4 W Halogen + 3 LEDs
- 50 m
- 4 pcs AA (LR6) Alkaline (not included)
- 2.4 W Halogen – approx. 2 h 30 min
- 3 LEDs – approx. 150 h

Art.no. 57002

M3
- 2.4 W Krypton
- 50 m
- 4 pcs AA (LR6) Alkaline (not included)
- 2.4 W Krypton – approx. 2 h 30 min

Art.no. 57001

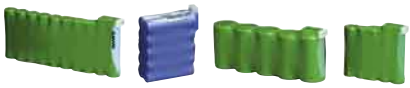
High Power Headlamps

These are your options when you want to turn the night into day!
With Silva high-power headlamps you are probably getting the best light from a headlamp available on the market. Outstanding performance due to the 10 Watt and 20 Watt bulb configuration. Large reflectors and long discharge times, due to the effective batteries, are important factors for users such as search and rescue teams, cross-country skiers, mountain bikers etc.

480
Extremely lightweight and with a well-fitting construction. Combine with any rechargeable battery and charging set (see below). This is probably the most comfortable high-power headlamp on the market.
Weight: 160g.
Art.no. 57060-20

478
Extremely lightweight construction with a neoprene headband for a great fit. Can easily be mounted on a helmet with the adhesive Velcro pads included. Combine with any rechargeable battery and charging set (see below). This is the choice for the alround user who wants to use the headlamp with and without helmet.
Weight: 160g.
Art.no. 57058-20

Battery Carrier Comfort
New battery carrier with optimal fit. Material in foam-plastic with fabric coating with elastic bands and straps for fixing to the body. Adjustable fixing for the battery. All batteries from Silva fit.
Art.no. 57184



NiMH Batteries 4Ah - 7Ah - 8Ah - 8Ah (flatpack)
Art.no. 57104-80 (8Ah, flatp.)
Art.no. 57103-80 (8Ah)
Art.no. 57103-70 (7Ah)
Art.no. 57102-40 (4Ah)

Charging Sets
One for 7Ah and 8Ah batteries and one for 4Ah batteries.
Art.no. 57127-44 (4 Ah)
Art.no. 57127-70 (7 and 8 Ah)

Discharge times NIMH batteries

Art.Nr	Ah	Charge time	10W	20W	Weight
57104-80	8,0	16h	4h 45min	2h 25min	580g
57103-80	8,0	16h	4h 45min	2h 25min	580g
57103-70	7,0	16h	4h 20min	2h 15min	820g
57102-40	4,0	16h	2h 30min	1h 15min	280g

Above discharge times are approximate and can vary depending on the condition of the battery, the temperature in the surroundings etc.

Size: 8,0Ah (flatpack)- 172x68x27 mm
7,0Ah - 162x33x59 mm
8,0Ah - 83x68x34 mm
4,0Ah - 83x68x17 mm

Headlamps FAQ

Why should I buy a headlamp?
Anytime you use a flashlight you would normally be much better off with a headlamp! There are several occasions when a headlamp is the perfect tool. Camping, climbing, hiking, running, professional work such as electricians, car repairmen, and search and rescue teams are all examples of frequent headlamp users.

What kind of model shall I choose?
If your primary goal is only light, you will in the high power range probably find the most powerful headlamps on the market, suitable for professionals, training athletes etc. If you need a compact, long-lasting headlamp with a combination of strong light and extremely long discharge-time we recommend one of the models M1 or M2.

Shall I choose a model with rechargeable or alkaline batteries?
If you intend to use your M-series headlamp often and you also have the possibility to charge between the uses we strongly recommend M1, which has the powerful halogen bulb in combination with the long-lasting LEDs. If charging possibilities are limited, the choice should be the M2 or M3 both which can be used with alkaline or rechargeable batteries. The high power headlamps such as the model 478 require powerful rechargeable battery-packs.

I depend on a very long discharge time – which is my choice?
The M1 and M2 have LED technology, which will give you approx. 100-150 hours of light. The light is soft and it is perfect for close range work.

Are the M-Series headlamps waterproof?
Yes, they are waterproof and dust proof to the IP56 standard ensuring use in the toughest of conditions.

Binoculars

You will regret leaving your Silva-binoculars at home when you are out there!
Whether you are a bird-watcher, mountaineer or backpacker, this range of outdoor-binoculars offers something for everyone. We have put great effort into creating rugged, compact and user-friendly designs. Perfect, when weight and space is a problem.

Art.no. 810742 Eterna Plus 7x42
Art.no. 811042 Eterna Plus 10x42

Eterna™ Plus and Eterna™ Compact
Our top models – fully comparable with the best binoculars on the market! These binoculars are designed to withstand really hard use. With an aluminium frame, rubber coating and roof prism they are rugged, compact and lightweight.

Waterproof, nitrogen gas filled· BaK-4 optics • Emerald Fire anti-reflex coating • Extended eye relief for those who wear glasses • Opti-Visor rotating eyepieces/ ocular covers (pat pend)

Lite-Tech™ Compact
Emerald Fire™ full multi-coating • Bak-4 roofprism • Waterproof • Fog-proof • Nitrogen filled • Extra wide neck strap
Art.no. 850825 Eterna Compact 8x25
Art.no. 851025 Eterna Compact 10x25

Eterna™ Compact
Same specification as Eterna Plus.
Art.no. 810825 Eterna Compact 8x25
Art.no. 811025 Eterna Compact10x25

Lite-Tech™ Vision
Solid rubber coated design • Anti reflection coating • Comes fully equipped with carrying case and an integrated neck-strap
Art.no. 850724 Lite-Tech Vision 7x24
Art.no. 850924 Lite-Tech Vision 9x24

Pocket
8x or 10x magnification • Anti-reflection coating • Solid rubber coated design • Comes fully equipped with carrying case and an integrated neck-strap
Art.no. 870825 Pocket 8x21
Art.no. 871025 Pocket 10x25

Binoculars FAQ

What am I going to use my binoculars for?
There are Silva binoculars that are suitable for any use, i.e. hunting, fishing, bird watching, outdoor life, arena sports, concerts, boating, hiking etc. It is important to give thorough consideration to how the binoculars will be used and under what conditions.

Size and Weight?
If the binoculars are to be carried around for long periods of time, it is a good idea to choose a compact model. The hiker will often find a full size pair too bulky and heavy, so they are often left at home. Lite-Tech™ Compact 8x25 and 10x25 are excellent compact models, as they are waterproof and robust! If you prioritize optical peak performance over lightweight, the choice would be Eterna™ Plus 7x42 or 10x42.

Do you wear glasses?
If you wear glasses we recommend a long eye relief. Eterna™ Plus and Eterna™ Compact feature fold-out/fold-in eyepieces and which our recommendation for those who wear glasses.

What is eye relief?
The ocular lens is the one through which the user sees the image in the binoculars. Eye relief is the distance from the ocular lens to the user's eye. The distance must be correct, in order to see a complete, clear and sharp image. If you wear glasses, you should choose a type of binoculars with eyepieces that can be pushed or folded in, because glasses offset the distance of the eye to the lens.

Do I need binoculars that are waterproof?
If the binoculars are to be used in boating or for longer hikes and with big changes in temperature, we recommend waterproof and nitrogen gas filled binoculars. All Eterna™ and the Lite-Tech™ Compact model are waterproof and nitrogen gas filled.

How much magnification do I need?
If the binoculars are going to be hand held and also used on moving platforms (eg at sea) we recommend 7x or 8x magnification. The characteristics of 7x42 (Eterna™ Plus) are an excellent choice.

For outdoor use ashore it may be advantageous to choose more powerful magnification, depending on what you need them for.

How important is it that the binoculars can be used under poor light conditions?
A large exit pupil gives better light throughput and sharpness under difficult light conditions. The type of optics also play a role.

Eterna Plus and Eterna Compact are excellent binoculars for use at dawn and dusk.

How important is the price tag?
The optical quality of the binoculars matches the price. Bak-4 optics are more expensive and complicated to produce than standard Bk-7 optics. It takes a lot of work to produce good anti-reflection coated lenses which also affects the price. If your top priority is optical peak quality we recommend Eterna Plus and Eterna Compact.

If you want to keep the price level down, but still get good and very price worthy binoculars, you should take a closer look at the Lite-Tech™ series. If you need small, light and easy to use binoculars, or an extra pair, Pocket should be your choice.

Binoculars FAQ

What do the numbers mean?
For example 7x42:

"7x" means that the object in view appears 7 times larger than when visualised with the naked eye.

"42" is the size or diameter of the front (object) lens expressed in millimetres. A larger diameter lets in more light and makes the binoculars better in poor light conditions.

What kind of prism systems are there?
Traditional porro prism system and roof prism system.

Porro prism system binoculars let more light in, and are larger and heavier and therefore most popular in areas like boating, where brightness is of key importance while the weight and form is not so important.

Roof prism system binoculars with their compact prism design are small and lightweight and therefore popular for outdoor users.

Different glass qualities?
There are two types of glass quality: Bak-4 and Bk-7.

Bak-4 is extremely clean and transparent and is reportedly the best binocular grade glass on the market. Bak-4 quality is achieved through a complicated and time consuming manufacturing process.

Bk-7 is the standard quality for glass in binoculars. It is less expensive to manufacture and therefore more popular for simple binoculars.

What is anti-reflection coating?
Stray light inside the binoculars spoils the image.

In order to enhance the viewed image, coating is applied to the lenses and/or prisms. It consists of a thin polarizing layer of magnesium fluoride. Each layer of stray light anti-reflection coating gives a brighter and sharper image. Our patented coating system Emerald Fire eliminates as much as 99.6% of the harmful UV- and IR-radiation.

What is exit pupil?
The exit pupil is the measure of the aperture that lets the light through to the eye. A large exit pupil gives a bright image that works very well under poor light conditions at for instance dawn, dusk and in shadows.

By dividing the diameter of the objective lens with the magnification of the binoculars, the exit pupil is obtained. Binoculars of type 8x25 have an exit pupil of 3 mm (25/8 = 3), which works quite well under normal lighting conditions. Binoculars with 7x42 and an exit pupil of 6 mm (42/7 = 6) are good for poorer light conditions.

What is field of view?
Field of view is the extent of the view you have through the glasses. Field of view is expressed at a range of 1000 meters. The greater the magnification, the narrower the field of view. Higher magnification and narrower field of view make binoculars harder to hold still without support.

Does the size of the binocular matter?
Compact binoculars are small and light, but have smaller and less bright lenses. Full size binoculars allow one to see a brighter image, but are larger and heavier. Give good thought to how you will be using the binoculars and under what conditions.

What kind of water protection do I need?
If the binoculars are going to be used in rain or in a marine environment it is wise to choose a waterproof model. The same is true if the binoculars will be subject to significant changes in temperature. Waterproof binoculars (preferably filled with nitrogen) keep out the surrounding air and its moisture and maintain a stable and dry condition inside the binoculars. This prevents condensation. When condensation dries out, it leaves droplet marks, which remain permanently inside the lenses.

Technical Data

Navigation
Waypoints: 1000 Waypoints
Routes: 10 reversible routes, each with up to 100 waypoints
Area calculation: Calculates the area in hectares/acres "inside" a route.
Track logging: 5000 trackpoints. Automatically records your trip and stores it for display using in a compatible PC software
Map datums: More than 100 local map datums
Grid systems: More than 10 including UTM, MGRS, plus Swiss, Australian, New Zealand, Netherlands, Irish, Finnish, Taiwan, Swedish and UK grids

GPS-Receiver
Receiver type: 12-channel parallel
Position update rate: 1 per second when in continuous GPS navigation mode
Differential GPS: Ready for differential corrections. (RTCM-SC104)
Antenna: Built-in patch antenna
Accuracy: 15 metres RMS. 1-5 metres RMS with DGPS

Electronic compass
IntelliCompass™: Automatic compensation for Earth's local magnetic declination
Accuracy: Better than 3 degrees
Resolution: 1 degree

Altimeter
Altitude: –700 m to +9200 m
Accuracy: Down to 1 metre assuming it is correctly calibrated
Resolution: 1 metre

Weather station - Barometer
Forecast: Shows forecast for 12 hours ahead as: Sunny, Partly cloudy, Cloudy, Rainy and Storm Warning
Barometric pressure range: 300-1100 hPa/mbar
Barometric history: Pressure changes over the last 36 hours
Accuracy: +/- 1.5 hPa

Data I/O
NMEA 0183 Out
Nexus PP Proprietary protocol
RTCM-SC104 DGPS Input

Miscellaneous
Internal power: 2 pcs AA batteries (not included)
External power: 6-28 VDC
Battery life: Typical compass navigation – Up to 60 days**
Typical compass/GPS navigation – Up to 100 hours***
Continuous GPS navigation – Up to 10 hours
Languages: More than 10 (including English, French, German, Spanish, Portugese, Italian, Dutch, Swedish, Estonian, Czech, Norwegian, Finnish and Hungarian,)
Operating temperature range: –25 C to +70 C

**=15 seconds every 5th minute. Continuous barometer logging.
***= GPS position update every 30th minute, compass 15 seconds every 5th minute. Continuous barometer logging.

Dimensions
Size: 170x61x30 mm
Weight: 254 g (including batteries)

Standard accessories
Wrist strap
Interactive neoprene carrying case

Warranty
2-years

Multi-Navigator™ FAQ

How does the GPS System work?
The Global Positioning System is based upon 24 satellites that circle around the Earth. By receiving the signals from the satellites the GPS receiver can calculate its position with an accuracy of down to a few meters. The GPS receiver needs to receive signals from at least 4 satellites simultaneously in order to calculate a position. The system works no matter where on Earth you are and 24 hours a day, 365 days a year.

Why should I buy a GPS?
A GPS is a valuable aid to navigation and in some situations, could prove essential to those who need precise POSITION, DIRECTION, ALTITUDE and SPEED. Using a GPS makes navigation even more interesting and fun. It also makes it much safer for all concerned.

What kind of GPS should I buy?
If your main concern is boating, or use in open terrain in normal temperatures, you will find that virtually all GPS instruments work more or less equally good. If you are a true outdoor user, with demands of functionality in extreme temperatures, under tree coverage and in extreme wet and snowy, environments the Multi-Navigator™ is the perfect choice.

Can I use the Multi-Navigator™ to find my way to a fishing lake in the forest?
Yes, you enter the target (waypoint) by entering its position (taken from a map) into the Multi-Navigator™. Now the Multi-Navigator™ will show you distance and in which direction to go to find the lake.

Will the Multi-Navigator™ work indoors, or in a car?
The GPS receiver needs to be in contact with the satellites in the sky and does normally not work indoors. But in a car, where the GPS signal can travel through the windows, it does normally work fine. Remember though, that the GPS always works best with a clear view of the sky.

What if my primarily concern is to find my way back to my starting position?
The One-Button-GPS™ is a unique function in the Multi-Navigator™, which takes a few seconds to learn and which will guide you back to your starting position.

Does the Multi-Navigator™ have maps?
The Multi-Navigator™ is built for tough, off-road, outdoor use. A graphic display, which is needed to show a map, will not work in extreme temperatures. On top of this, the maps available today for these kinds of products are very schematic, showing major roads etc but not information about topography and other detailed information which is essential when in wild country and that can be found on the paper map.

Can I after the trip see where I have been?
Yes, the Track-log function stores your movements internally and can display them on a computer screen if using Multi-Navigator™ compatible software**.**

How long do the batteries last?
To conserve your batteries, avoid keeping your GPS receiver in the Multi-Navigator™ on continuously. When the GPS in the Multi-Navigator™ has established your position, you shut off the Multi-Navigator™, push the compass button and navigate towards the waypoint. Update your position from time to time. In this way you save battery power.

Multi-Navigator™

Art.no. 21802-9, yellow
Art.no. 21802-901, grey

The Multi-Navigator™ tells you not only where you are but also where, when and why to go.

More than just a GPS, the Silva Multi-Navigator™, is the only instrument you need to head into unknown territory and return home safely. Whether fighting your way through tropical rainforests or blazing new ground in the Artic, the Multi-Navigator™ has been designed to withstand the most extreme weather conditions.

The water resistant Multi-Navigator incorporates the True Magnetic Compass, an internal digital compass that adjusts for local declination and continues to show the true compass course during navigation. The compass function works independently of the GPS function, allowing you to navigate without the assistance of satellites and update your position when needed, giving you weeks worth of battery power rather than hours.

The "One-Button-GPS" home function is truly what makes the Multi-Navigator stand apart from other GPS units on the market. This function allows you to access a direct bearing back to your start position. This unique feature can be especially useful in an emergency situation as it provides an immediate bearing to "home and safety".

The calibrated internal altimeter reads the elevation based on atmospheric pressure, not satellite readings. This will give you an accuracy of +/- 1m, where other GPS units are capable of detecting altitude with an accuracy of +/- 30m. This feature can be an invaluable aid when you are in the mountains, in foul weather, and for pinpointing your exact position on a topographic map.

The Multi-Navigator™ provides the barometric pressures over the past 36 hours and the current pressure. Based upon this it will give you a forecast for the next 12 hours on the easy-to-read LCD screen in Sunny, Partly Cloudy, Cloudy, Rainy and Stormy connotations.

Optional accessories

Navigational Software compatibility

The Multi-Navigator™ is compatible with many leading GPS Software on the market. Please visit www.silva.se for further reference.

Global Map Planner™

PC Software for planning your trip. Import scanned paper-maps and up/download waypoints, routes and look at your track log in your PC. Can also be used for real time navigation. Global Map PlannerTM comes complete with data cable.
Art.no. 21931-1

Vehicle Kit

Mounting bracket and a 12V-power cable with cigarette lighter adapter for use in a 4WD, ATV, snowmobile, balloon etc.
Art.no. 21930-1

Data cable

Here is the data cable sold separately for you who like to use the Multi-Navigator™ with another compatible software. For a the latest list of compatible softwares visit: www.silva.se.
Art.no. 21946

Mounting bracket

Same as in Vehicle kit also sold separately.
Art.no. 21912-1

External battery cable

Need continuous navigation for hours and hours? With this cable and a rechargeable Ni-MH headlamp battery (see headlamp section) you have the solution!
Art.no. 21120

Eclipse

Eclipse 99 Pro
Art.no. 36351-4001

Eclipse 96 GPS
Art.no. 36502-0001

Eclipse 97 Grip
Art.no. 36353-1001

A revolution in compass technology! A magnetized disc and a reference circle in the bottom of the capsule, replacing the traditional compass needle is what forms the Eclipse System. The Eclipse System gives improved accuracy in the readings. All Eclipse compasses are adjustable for magnetic declination (variation) and include a magnified graduation ring for ½-degree readings.

Voyager

Voyager 8010
Art.no. 36580-5011

Voyager 9020
Art.no. 36578-5001

Voyager 8040
Art.no. 36582-5001

Who needs a compass more than a globetrotter? The Voyager series features a multi-zone balanced needle that will work regardless of where you are in the world. An optic yellow base plate with different map measuring scales as well as a magnetic declination adjuster are standard on all Voyager compasses.

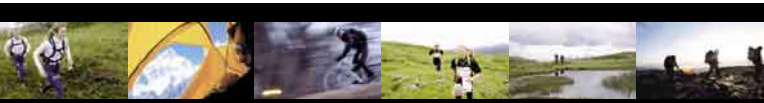
Adventure

58
Art.no. 35730-0651

70 UN
Art.no. 35014, 70 UN
Art.no. 35014-1141, 70 UN with battery illumination

58 Kayak
Art.no. 36528-0601

Para-gliding, white-water kayaking, 4WD racing, sea-kayaking and multi-sport. All are sports in which you can not afford to make major mistakes. Being off-track without a compass could definitely result in you ending up in great danger. Prepare yourself for your adventure with the Adventure Sports Compasses! They are built for tough performance within each field of use.



Compasses

Expedition

Expedition 54
Art.no. 35852-1011

Expedition 4
Art.no. 35692-1011

Expedition 25
Art.no. 35942-6041

Compasses for really serious navigators and professionals. The base plates have different scales and a built-in magnifier. Naturally they are equipped with luminous points for navigation in the dark.

Ranger

Ranger 15
Art.no. 34896 15 T
Art.no. 34917 15 TDCL

Ranger 3
Art.no. 34820

Ranger 27
Art.no. 34952

This series is specially suited for more experienced users such as backpackers, mountaineers, hunters, fishermen etc. All Ranger compasses are equipped with; the patented red/black north/south lines in the capsule for quick and correct course setting, north indicator on the red end of the compass needle and luminous markings for navigation in the dark.

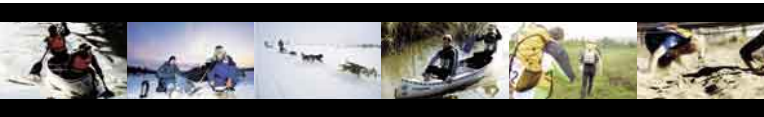
Field

Field 26
Art.no. 35134

Field 7
Art.no. 34855

Field 11
Art.no. 35334-2001

This series is created to meet the demands from Boy Scouts/youth organizations, hikers and schools to use on day trips. Patented red/black north/south lines in the capsule (Field 7 and 26) and a north indicator on the compass needle are standard on the Field series. Field 7 is probably the worlds best selling compass model!



Silva 1-2-3 System

I know my position on the map and would like to go to a lake in the forest, which I see on the map – how do I do?
The easiest way to set a compass course towards the lake is to use the Silva 1-2-3 System. It is a simple and safe system used by navigators such as expeditions, youth organisations, mountain-guides, armies, orienteers etc all over the world and it is the main reason for Silva's market leading position.

1. Place the compass on the map with the edge of the compass along the desired line of travel.

2. Rotate the compass housing until N on the dial points North on the map. Check that the compass housing red/black north/south lines are parallel with the maps meridians.

3. Hold the compass in your hand and turn yourself until the red end of the compass needle (North) coincides with the red arrow in the bottom of the compass housing. The front of the compass with the direction of travel arrow is now pointing towards your destination.

NB! If using a mirror-sighting compass – angle the mirror/lid approx. 45 degrees towards yourself and hold it with straight-arm in front of you. Now, at the same time looking in the mirror to see that the compass needle aligns with the red/black N/S arrow, sight above the mirror (using the sight) towards an object in the field in line with the direction of travel.

Guide to compasses

What is magnetic declination (variation)?
Magnetic declination is the difference in degrees, between Geographic North (to which the maps meridians are directed) and Magnetic North (to where the compass needle is pointing). It varies, depending on where you are in the world and can be found on most maps. Eastern declination means that you shall subtract the amount of the declination from the bearing obtained from the map to get a true compass course. Western declination means naturally that you should add the declination to the bearing. With some Silva compasses (such as model Ranger 15 TDCL, Expedition 25 TDCL-E or the Voyager series) you can compensate for the declination .

Does my compass work anywhere in the World?
Yes, the only thing you might consider is the fact that the compass needle can dip/tilt if you travel far north or south from the area in which you bought the compass (and for which area it is intended to be used). Normally this does not affect the accuracy but for world wide travellers we recommend the Voyager series, which due to its construction/balancing of the needle can be used in most areas without affecting its performance.

Why does my compass show the wrong direction when I am in the car?
Because of deviation, the deflection of the compass needle from Magnetic North, by a magnetic field other than the earth's magnetic field.

One must always be aware of that this can happen. Magnetic fields exist near knives, scissors, electronic instruments including radios, metal fences, weapons, tins, some rings and watches, spectacle (especially the hinge screw) and vehicles. When using your compass – try to stay clear of strong magnetic fields for the best accuracy.

How do I make sure that I care for my compass in the best possible way?
Try to store your compass away from extremely strong magnetic fields such as strong magnets, loudspeakers, etc which in extreme cases can demagnetise the compass needle. Avoid giving compasses hard knocks, and if needed clean the compass in fresh water.

What shall I think about before leaving home?
Check the polarity of the needle, the general condition of the compass and that the compass functions correctly so that you can be sure that you get the most out of your Silva-compass.

Outdoor Instruments

Alta Sports Altimeter
The Sports Altimeter SILVA ALTA is a precision altimeter developed for you as a multisport-competitior, skiier, alpinist, hiker, cyclist or athlete who wants to measure changes in altitude with a resolution as accurate as 1 meter (3 feet).
Art.no. 55300

Alba Windwatch®
Measures precisely: Altitude (meters and feet), Barometric Pressure (hPa and inHg), Temperature (°C and °F), Wind Chill (°C and °F), Wind Speed (m/s, knots, km/h, mph and beaufort)
Time (hours and minutes)
Art.no. 55210-2700

Windwatch®
The Silva Windwatch® measures precisely and reliably wind speed and temperature including wind-chill.
Art.no. 55200-5700

Batterysaver Powerpak
- Charging up to 4 AA rechargeable batteries
- 12V adapter for charging mobile phone, PDA, laptop batteries, digital cameras etc
- Powering small portable electronics such as FM-radio etc.
- Direct charging of the Silva M1 Headlamp
- Maintenance of vehicle batteries
- Tilting solar panel for maximum sunlight exposure

Art.no. 57121

Batterysaver AA
- Charging up to 4 AA re-chargeable batteries
- Stores 4 additional AA batteries
- Perfect for any portable device such as PDA, GPS, Headlamp, Flashlight that utilise rechargeable AA batteries
- Tilting solar panel for maximum sunlight exposure

Art.no. 57122

Nomad - A compass with its own memory

The digital compass Silva Nomad has a memory, which means that the user can always see the set course along with any deviations from it. The course back to the starting point is also stored, should the user want to return. The Silva Nomad has display lighting, which makes navigation and outdoor pursuits easier, at any time of the day or night.

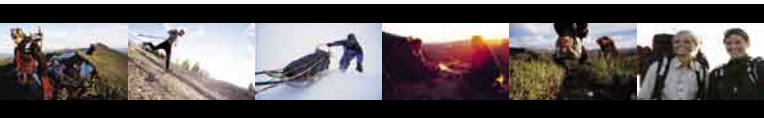
By using the Silva Nomad, the user can set a desired course to a destination in the terrain. The compass saves information on the compass course and warns the user if he or she is off course. It also shows the degree to which the user is to veer to the right or left in order to keep on the correct course. At the same time as the user stores a course to a destination, the correct counter course is automatically stored. This makes it easier for the user if he or she decides to return to the starting point.

The Silva Nomad can also be used at night. The compass has a clear display and background lighting. It also has an inbuilt spirit level, which means that the user can clearly see whether the compass is horizontal, for the greatest possible precision.

The compass, which is 9 centimetres by 5.8 centimetres, carries out electronic adjustment of magnetic declination. The Silva Nomad has a low battery level indicator and a lithium battery (included) which has an estimated life of up to 500 hours. The compass weighs 86 grams and a neck and wristband are included.

- Forward bearing and back bearing memory
- Off-course indicator to keep you on track
- Backlit digital display
- Adjustment for magnetic declination
- 1 degree resolution

Art.no. 46000



Outdoor Instrument FAQ

How does an altimeter work?
An altimeter works like a barometer, by measuring changes in atmospheric pressure. It responds to pressure changes and re-calculates these into a certain altitude above sea level.

How accurate is a Silva Altimeter?
Provided it is recently calibrated you will have an accuracy down to +/-1m!

Do I need to calibrate my altimeter?
Yes – since the altimeter is using recent and current air pressures for its calculation, it is important to calibrate the altimeter frequently (at known altitudes). It is good to know that a difference of 1mbar equals in 8 meters altitude.

What is wind-chill?
Wind-chill is the effect of wind speed and temperature combined. It is important to consider the wind-chill factor when selecting clothing to wear during an expedition. The Windwatch will provide you with the current wind-chill factor.
Bear in mind, that at just 20km/h wind speed and an ambient temperature of -5°C, the wind-chill effect is -20°C!

How does a pedometer work?
A pedometer uses a sensor that registers every step you take. After having entered your stride length the pedometer will calculate the approximate distance you have walked/run during your trip/exercise. Accuracy depends upon accurate calibration of your stride length. The average stride length along the walk, should equal the stride length used for calibration. Remember to attach the pedometer on your belt etc at your hip for best results.

Can I use the BatterySaver PowerPak to charge my mobile phone?
Yes, the PowerPak has a 12V adapter to which you can connect your 12Volt cig adapter charger.

Do the Solar panels need direct sunshine to work?
No – they will charge at normal daylight as well but naturally it is preferable to expose the panel to full sunlight for best performance.

Accessories

Pedometer Multi
Use the Pedometer Multi when walking or jogging. Functions: step, frequency, timer, distance and calory.
Art.no. 56029 (Pedometer Multi)

Pedometer Dist
The pedometer model for you, if you are only interested in the distance travelled. Extremely easy to use.
Art.no. 56022 (Pedometer Dist)

Pedometer Alarm
Calculates steps, distance and calories. Built-in clock and a timer function. Equipped with a 105dB panic alarm! Perfect for walking/jogging on your own.
Art.no. 56020

Map Case Alround
The Alround is a foldable map case to give the map a compact size when carried in the outdoors. Inside the map case there are extra pockets for compass, pens etc. The size is 24x26 cm and when folded is 28x15 cm.
Art.no. 55049

Digital Map Measurer
The electronic map measurer from Silva is a multi-function instrument featuring map measurer, calculator, mini-flashlight, key-ring and a compass.
Art.no. 55067

Map Measurer
A traditional style map measurer with 8 scales: 1:750k, 1:500k, 1:400k, 1:200k, 1:100k, 1:50k, 1:25k, 1:15k
Art.no. 55066

CD-Rom, Exploring the Nature..
Learn map-reading, compass use and navigation techniques and tactics with this CD-rom. You can test your skills with an orienteering game and with quiz about the map, the compass and navigation.
Art.no. SEN-98

Book, Exploring the Nature..
The perfect guide to map-reading, compass use and navigation techniques and tactics. Lots of illustrations and examples. 100 pages. English. Published by SISU Sport Books. ISBN Number: 91-88940-46-2
Art.no. SEN-99

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